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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re applic	ation of:)			
	MISZCZAK ET AL.	Atty. Docket	No. 8313		
A1 WY) Examiner M	Examiner M. Elve		
Appl. No.:	09/227,242)	The second		
Filed:	8 January 1999) Art Unit 175	2 A Same Agent		
. Hrd.	o outreat à 1333)	SEP 1 0 200		
For:	"Ultra Low Carbon Metal-	Core Weld Wire"			

AFFIDAVIT UNDER 37 CFR 1.132

Assistant Commissioner for Patents Box Fee Amendment Washington, D.C. 20231

SIR:

I, Grant HARVEY, hereby declare the following:

1.	That I am a resident of WOODSTOCK, ONTARIO, CAMADA and a citizen of CAMADA
2.	That I am an employee of ITW HOBART Brothers of Canada (Hobart), Woodstock Ontario, a Division of Illinois Tool Works Inc., Glenview Illinois, the assignee of record of the referenced patent application;
3.	That Hobert is a designer, manufacturer and industrial supplier of weld wire;

4. That prior to the filing of the referenced patent application, Hobert embarked on a strategic initiative to develop low fume weld wires without loss of performance characteristics, motivated in part by industries desires to reduce welding fumes generally and to comply with governmental regulations;

MISZCZAK ET AL, "Ultra Low Carbon Metal-Core Weld Wire"

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- 5. That Hobart has developed metal-core weld wires having low fumes and good performance characteristics that are the subject of the referenced patent application, particularly the claims thereof;
- That Hobart sells low fume metal-core weld wires under the commercial names "FabCOR80XLS" and "FabCOR90XLS". A Sales Brochure for the FabCOR90XLS is attached hereto as EXHIBIT A;
- 7. That the "FabCOR80XLS" and "FabCOR96XLS" metal-core weld wires have compositions recited in at least one of Claims 1 or 21 of the present invention, particularly the carbon content in the range of Claim 1 or 21, the metal-core composition weight percentage in the range of Claim 1 or 21, and the metal-core carbon content in the range of Claim 21;
- That sales of the "FabCOR80XLS" and "FabCOR96XLS" metal-core weld wires have been commercially successful since being introduced into the warket, and that said sales are growing substantially, as indicated on the Sales Data Sheets, which true copies of business records kept and maintained in the ordinary course of business of ITW Hobart Canada, attached hereto as EXHIBIT B;
- 9. That the "FabCOR80XLS" and "FabCOR96XTS" low fume metal-core weld wires have substantially displaced the use of flux-core weld wires by some customers of ITW Hobart CANADA by virtue of the relatively low fume production of the "FabCOR80XLS" and "FabCOR80XLS" metal-core weld wires and their compliance with industry specifications;

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- 10. That the "FabCOR80XLS" and "FabCOR90XLS" low fume metal-core weld wires have enabled customers to comply with trade union and regulatory mandates by virtue of their low fume production;
- 11. That all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Grant HARVEY

pril 2001

Metal Cored Arc Welding Products



ULTIMET 716



Key Benefits: ...

Extra low smoke, smooth and stable arc, high deposition rates

Approvals:

CSA/CWB W48.5-M, Class E4801C-6-CH

Conformances:

AWS A5.18, Class E70C-6M -6C ASME SFA5.18, Class E70C-6M, -6C (F6, A1)

Characteristics:

ULTIMET 716 is a premium gas shielded metal cored tubular wire. As part of the ECLIPSE family of welding consumables this wire is designed to have extra low smoke emission levels.

ULTIMET 716 provides high deposition rates and deposition efficiency. It performs especially well in areas where part fit-up is a problem. Easy to set welding parameters combined with exceptional weld bead appearance are the reason we consider this wire the "ULTIMET" metal cored tubular wire on the market.

Applications:

This wire is designed for both single and multi-pass welding of low and medium carbon steels in the flat and horizontal position. It is formulated for shops where smoke and fume emission levels are an issue. It is ideally sulted for high production and automated applications where large quantities of filler metal can be deposited with a minimum amount of smoke, spatter and slag. Suitable for a wide variety of welding applications Including rall cars, steel structures, storage vessels, mining and construction industry.

Mechanical Properti	es:			
Shielding Gas Used	Tensile Strength MPa (psi)	Yield Strength MPa (psi)	Elongation %	Charpy V-Notch Impact Values Joules(ft. lbs.) As welded @ -30°C (-20°F)
100% CO ₂	560 (81,200)	480 (70,000)	30	52 (38)
92% Ar / 8% CO ₂	575 (83,400)	490 (71,000)	30	40 (30)

Note: All values are typical.

Chemical Composit	ion of Weld Meta	l (%):			
Shielding Gas Used	С	Мп	Si	. Р	s
100% CO ₂	0.026	1.48	0.75	0.010	0.010
92% Ar / 8% CO ₂	0.029	1.70	0.83	0.010	0.010

Note: All values are typical.

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The information contained or otherwise referenced herein is presented only as "typical" without guaranted on warranty and Hobart Brothers of Canada expressly disclaims any liability incurred from any reliance thereon. Typical data are those obtained when welded and ter sted in accordance with CSA specifications W48.5M. Other tests and procedures may produce different results. No data is to be construed as a recommendation or technique not controlled by Hobart Brothers of Canada. Material Safety Data Sheets (MSDS) on any Hobart Brothers of Canada product may be obtained from Hobart Customer Service.

Hobart and Edipse are registered trademarks of the Itilnois Tool Works Company.

Hobart Brothers of Canada

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Phone: (877) 422-9353, Fax: (519) 421-0480







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ULTIMET 716

Welding Position:

Flat / Horizontal Vertical Up - 1.2mm (0.045") only

Shielding Gas(es):

100% CO, to 92% Argon / 8% CO,

Gas Flow Rates:

20 l/min - 30 l/min (40 ft³/hr - 60 ft³/hr)

Polarity:

Direct Current Electrode Positive (DCEP), Reverse Polarity

Recomme	ended Oper	ating Paran	neter Range	es:					
Wire D	iameter	Arc	Wire Fee	ed Speed	Electroda	Stick Out	Current	Deposit	lon Rate
mm	inches	Voltage (volts)	cm/min	lpm	mm	inches	(amps)	kg/hr	lbs/hr
1.2	0.045	25	790	310	16	5/8	250	3.8	8.4
24012344	********	*4. 271	#### 000 a k	395	· 英国中国的 (100)	11415/81111	1451294141	#¥#>5.0 \$ %±	**********
1.2	0.045	29	1300	510	16	5/8	363	6.4	14.1
1.4	0.052	25	890	350	16	5/8	295	5.2	11.4
*******	110.052	27	1000	71 395 41	anna h Curre	5/8±4±1	*****330***	****5.7 ***	4 12.6 14 T
1.4	0.052	29	1160	455	16	5/8	380	6.6	14.6
1.6	1/16	25	760	300	19	3/4	340	6.3	13.8
9 1	1776	27	890	350	144 191 167	3/4	380	7.4	162
1.6	1/16	29	1040	410	19	3/4	430	8.5	18.8

Note:

Highlighted areas are optimum values Shielding gas used: 92% Ar / 8% CO,

lable Packaging					
Wire Diameter		Standard Package	Standard Pallet	Stock Number	
mm	Inches				
12	0.045	15 kg Steel Reel	540 kg	716-12-150GS	
1.2	0.045	25 kg Coil	500 kg	716-12-250C	
1.2	0.045	200 kg Precision Drum	400 kg	716-12-200PD	
1.4	0.052	15 kg Steel Reel	540 kg	716-14-150GS	
1,4	0.052	200 kg Precision Drum	400 kg	716-14-200PD	
1.6	1/16	15 kg Steel Reel	540 kg	716-16-150GS	
1.6	1/16	25 kg Coil	500 kg	716-16-250C	
1.6	1/16	200 kg Precision Drum	400 kg	716-16-200PD	

Other packaging options may be available, please consult Hobart Customer Service for availability and order requirements.

MCMS-002 Rev.2

04/00

Because Hobert Brothers of Curuda is constantly improving products, Hobert reserves the right to change design, specifications and / or puckaging without notice.

